



NORTHERN ARIZONA
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IPR23-030 NC AZ SENIOR LIVING

IPR Fire Review

1. On site fire hydrant(s) shall be provided for fire protection. **Sec. 507.5.1 Where required.** *Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 400 feet (122 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official. Exceptions: 1. For Group R-3 and Group U occupancies, the distance requirement shall be 600 feet (183 m). 2. For buildings equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, the distance requirement shall be 600 feet (183 m).*
2. Underground fire line plans must be submitted to CAFMA. Any underground fire main installed shall be required to be inspected by CAFMA prior to covering any portion of the piping and/or thrust blocks. Then the piping shall be center-loaded, leaving all joints exposed, for the 200 pound pressure test. Once the test is completed a three minute, full orifice flush shall be required to be witnessed by the Fire Prevention Division. Prior to final acceptance the NFPA underground certification document shall be submitted to CAFMA. **Sec. 901.5 Installation acceptance testing.** *Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing.*
3. The FDC shall be within 100' of a fire hydrant. A detail for the Fire Department Connection, including the valves before and after the connection(s) on the riser, is required to be submitted prior to the first inspection. **Sec. 901.2 Construction documents.** *The fire code official shall have the authority to require construction documents and calculations for all fire protection systems and to require permits be issued for the installation, rehabilitation or modification of any fire protection system. Construction documents for fire protection systems shall be submitted for review and approval prior to system installation*
4. Fire extinguishers shall be provided. Size and distribution shall be as required by Tables 906.1, 906.3(1) and 906.3(2). This shall determine the number of extinguishers required for this building. The fire extinguishers shall not be mounted higher than five feet (5') from floor level. **Sec. 906.2 General requirements.**



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Portable fire extinguishers shall be selected, installed and maintained in accordance with this section and NFPA 10.

5. Fire sprinklers and fire alarms will be required; can be listed as deferred.

6. **ACCESS ROADS:**

Sec. 503.2.1 Dimensions. *Fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096mm), exclusive of shoulders, except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm).*

An all-weather road surface shall be provided to support the weight of a 90,000 pound fire apparatus. **Sec. 503.2.3 Surface.** *Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all-weather driving capabilities.*

All dead end roads in excess of 150 feet shall have an approved turn-around to accommodate emergency vehicles. Temporary dead-end roads shall be provided with approved turn-around until such time as the road is extended. **Sec. D103.4 Dead ends.** *Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) shall be provided with width and turnaround provisions in accordance with Table D103.4.*

Road widths of twenty (20) feet shall be posted with signs stating: "No Parking-Fire Lane by Order of the Fire Marshal". Signs shall be spaced at 150' beginning at the entrance. **Sec. 503.3 Marking.** *Where required by the fire code official, approved signs or other approved notices or markings that include the words NO PARKING—FIRE LANE shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. The means by which fire lanes are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility.*

Fire apparatus access road gates. Gates securing the fire apparatus access roads shall comply with all of the following criteria: Where a single gate is provided, the gate width shall be not less than 20 feet (6096 mm). Knox padlocks are required on all access restricted gates for fire department access. **Sec. 503.6 Security gates.** *The installation of security gates across a fire apparatus access road shall be approved by the fire chief. Where security gates are installed, they shall have an approved means of emergency operation. The security gates and the emergency operation shall be maintained operational at all times. Electric gate operators, where provided, shall be listed in accordance with UL 325. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F 2200.*



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7. The minimum turning radius shall be 28 feet inside and 50 feet outside diameter for all fire department access roads and parking lots. IFC Appendix D
8. The business address shall be posted on the structure and/or sign visible from the street on which the structure is addressed, including individual suite, unit, or apartment numbers. **Sec. 505.1 Address identification (amended).** *New and existing buildings shall have approved address numbers, building numbers or building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Where required by the fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of 6 inches high with a minimum stroke width of 0.5 inch. Address numbers should be proportionate to building size and larger numbers may be required by the fire code official to facilitate emergency response.*
9. **Construction Sites (Chapter 33)**

The water supply, in the form of fire hydrants, shall be inspected and approved prior to combustibles arriving on site. **Sec. 3312.1 When required.** *An approved water supply for fire protection, either temporary or permanent, shall be made available as soon as combustible material arrives on the site.*

0Approved all weather access roads shall be provided throughout the construction phase until such time as permanent access roads are available. **Sec. 3310.1 Required access.** *Approved vehicle access for firefighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet (30 480 mm) of temporary or permanent fire department connections. Vehicle access shall be provided by either temporary or permanent roads, capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access roads are available.*
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